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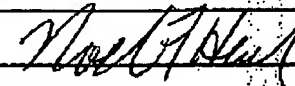
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<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	Application Number	10/628,679 <b>719</b>	
	Filing Date	July 28, 2003	
	First Named Inventor	Quenth P. Harr	
	Art Unit	2814	
	Examiner Name	Long Pham	
Total Number of Pages in This Submission	3	Attorney Docket Number	12-1143

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Firm Name	Northrop Grumman Space Technology		
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Docket No. 12-1143

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the Application of:

Quentin P. Herr

Serial No.: 10/628,779

Filed: July 28, 2003

For: SUPERCONDUCTING DIGITAL  
FIRST-IN FIRST-OUT BUFFER  
USING NOVEL BACK  
PRESSURE MECHANISM

Examiner: Long Pham

Group Art Unit: 2814

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Noel F. Heal

Signature RESPONSE TO RESTRICTION REQUIREMENTCommissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In the Office action mailed September 14, 2004, the Examiner states that the "application contains claims directed to the following patentably distinct species of the claimed invention: species I: first embodiment, fig. 1 and species II: second embodiment, fig. 4 of this application."

In response to the requirement to elect one of these species, Applicant provisionally elects Species I (FIG. 1), but respectfully traverses the requirement.

Application No. 10/628779


Docket No. 12-1143

Claims 1-20 all read on FIG. 1. However, claims 1-20 are also believed to read on FIG. 4, and are, therefore, believed to be generic claims. The distinguishing feature of the embodiment of FIG. 4 is the circuit 202, which includes an isolation inductor 204 and a Josephson junction 206, and serves to isolate the clock-storage circuit 214 from the data-storage circuit 216, as described in the specification (paragraph [0032]). At present, no claims are specifically directed to this feature, but Applicant may wish to add such claims, once the Examiner agrees that at least some of claims 1-20 are generic to both illustrated embodiments.

Reconsideration and withdrawal of the restriction requirement are respectfully requested.

Respectfully submitted,

Date: October 4, 2004

  
Noel F. Heal  
Registration No. 26,074

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